



TPW

PTO/SB/21 (09-04)

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## TRANSMITTAL FORM

(to be used for all correspondence after initial filing)

Total Number of Pages in This Submission

|  |                                       |
|--|---------------------------------------|
| Application Number                       | 10/666,149                            |
| Filing Date                              | September 19, 2003                    |
| First Named Inventor                     | Nelson, James M.                      |
| Art Unit                                 | 2621                                  |
| Examiner Name                            | Pending                               |
| Total Number of Pages in This Submission | Attorney Docket Number<br>BING-1-1040 |

### ENCLOSURES (Check all that apply)

|   |   |   |
|---|---|---|
| <input checked="" type="checkbox"/> Fee Transmittal Form                  | <input type="checkbox"/> Drawing(s)                                       | <input type="checkbox"/> After Allowance Communication to TC                            |
| <input type="checkbox"/> Fee Attached                                     | <input type="checkbox"/> Licensing-related Papers                         | <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences     |
| <input type="checkbox"/> Amendment/Reply                                  | <input type="checkbox"/> Petition   | <input type="checkbox"/> Appeal Communication to TC (Appeal Notice, Brief, Reply Brief) |
| <input type="checkbox"/> After Final                                      | <input type="checkbox"/> Petition to Convert to a Provisional Application | <input type="checkbox"/> Proprietary Information  |
| <input type="checkbox"/> Affidavits/declaration(s)                        | <input type="checkbox"/> Power of Attorney, Revocation                    | <input type="checkbox"/> Status Letter  |
| <input type="checkbox"/> Extension of Time Request                        | <input type="checkbox"/> Change of Correspondence Address                 | <input checked="" type="checkbox"/> Other Enclosure(s) (please Identify below):         |
| <input type="checkbox"/> Express Abandonment Request                      | <input type="checkbox"/> Terminal Disclaimer                              | <input type="checkbox"/> Return Receipt Postcard  |
| <input checked="" type="checkbox"/> Information Disclosure Statement      | <input type="checkbox"/> Request for Refund                               | <input type="checkbox"/> Cited References (2)   |
| <input type="checkbox"/> Certified Copy of Priority Document(s)           | <input type="checkbox"/> CD, Number of CD(s) _____                        |   |
| <input type="checkbox"/> Reply to Missing Parts/ Incomplete Application   | <input type="checkbox"/> Landscape Table on CD                            |   |
| <input type="checkbox"/> Reply to Missing Parts under 37 CFR 1.52 or 1.53 |   |   |
| Remarks   |   |   |

### SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

|              |                           |          |        |
|--------------|---------------------------|----------|--------|
| Firm Name    | Black Lowe & Graham, PLLC |          |        |
| Signature    |                           |          |        |
| Printed name | Dale C. Barr              |          |        |
| Date         | April 28, 2005            | Reg. No. | 40,498 |

### CERTIFICATE OF TRANSMISSION/MAILING

I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below:

|                       |             |      |                |
|-----------------------|-------------|------|----------------|
| Signature             |             |      |                |
| Typed or printed name | Wendy Saxby | Date | April 28, 2005 |

This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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Effective on 12/08/2004.

Fees pursuant to the Consolidated Appropriations Act, 2005 (H.R. 4818).

# FEE TRANSMITTAL For FY 2005

Applicant claims small entity status. See 37 CFR 1.27

**TOTAL AMOUNT OF PAYMENT** (\$ ) **0**

## Complete if Known

|                      |                    |
|----------------------|--------------------|
| Application Number   | 10/666,149         |
| Filing Date          | September 19, 2003 |
| First Named Inventor | Nelson, James M.   |
| Examiner Name        | Pending            |
| Art Unit             | 2621               |
| Attorney Docket No.  | BING-1-1040        |

## METHOD OF PAYMENT (check all that apply)

Check  Credit Card  Money Order  None  Other (please identify): \_\_\_\_\_

Deposit Account Deposit Account Number: \_\_\_\_\_ Deposit Account Name: \_\_\_\_\_

For the above-identified deposit account, the Director is hereby authorized to: (check all that apply)

Charge fee(s) indicated below  Charge fee(s) indicated below, except for the filing fee

Charge any additional fee(s) or underpayments of fee(s) under 37 CFR 1.16 and 1.17  Credit any overpayments

**WARNING:** Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

## FEE CALCULATION

### 1. BASIC FILING, SEARCH, AND EXAMINATION FEES

| Application Type | FILING FEES |                       | SEARCH FEES |                       | EXAMINATION FEES |                       | Fees Paid (\$) |
|------------------|-------------|-----------------------|-------------|-----------------------|------------------|-----------------------|----------------|
|                  | Fee (\$)    | Small Entity Fee (\$) | Fee (\$)    | Small Entity Fee (\$) | Fee (\$)         | Small Entity Fee (\$) |                |
| Utility          | 300         | 150                   | 500         | 250                   | 200              | 100                   | _____          |
| Design           | 200         | 100                   | 100         | 50                    | 130              | 65                    | _____          |
| Plant            | 200         | 100                   | 300         | 150                   | 160              | 80                    | _____          |
| Reissue          | 300         | 150                   | 500         | 250                   | 600              | 300                   | _____          |
| Provisional      | 200         | 100                   | 0           | 0                     | 0                | 0                     | _____          |

### 2. EXCESS CLAIM FEES

#### Fee Description

Each claim over 20 or, for Reissues, each claim over 20 and more than in the original patent

Each independent claim over 3 or, for Reissues, each independent claim more than in the original patent

Multiple dependent claims

| Total Claims | Extra Claims | Fee (\$) | Fee Paid (\$) | Multiple Dependent Claims |               | Small Entity Fee (\$) | Fee (\$) |
|--------------|--------------|----------|---------------|---------------------------|---------------|-----------------------|----------|
|              |              |          |               | Fee (\$)                  | Fee Paid (\$) |                       |          |
| - 20 or HP = | x            | =        |               |                           |               | 50                    | 25       |

HP = highest number of total claims paid for, if greater than 20

| Indep. Claims | Extra Claims | Fee (\$) | Fee Paid (\$) | Multiple Dependent Claims |               |
|---------------|--------------|----------|---------------|---------------------------|---------------|
|               |              |          |               | Fee (\$)                  | Fee Paid (\$) |
| - 3 or HP =   | x            | =        |               |                           |               |

HP = highest number of independent claims paid for, if greater than 3

### 3. APPLICATION SIZE FEE

If the specification and drawings exceed 100 sheets of paper, the application size fee due is \$250 (\$125 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).

| Total Sheets | Extra Sheets | Number of each additional 50 or fraction thereof | Fee (\$) | Fee Paid (\$) |
|--------------|--------------|--|----------|---------------|
| - 100 =      | / 50 =       | (round up to a whole number) x                   | =        |               |

### 4. OTHER FEE(S)

Non-English Specification, \$130 fee (no small entity discount)

Other: \_\_\_\_\_

## SUBMITTED BY

|                   |              |   |                        |
|-------------------|--------------|---|------------------------|
| Signature         |              | Registration No.<br>(Attorney/Agent) 40,498 | Telephone 206.381.3300 |
| Name (Print/Type) | Dale C. Barr |   | Date April 28, 2005    |

This collection of information is required by 37 CFR 1.136. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 30 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Nelson, James M. Attorney Docket No.: BING-1-1040  
Serial No.: 10/666,149 Group Art Unit: 2621  
Filing Date: September 19, 2003 Examiner: Pending  
Title: Scalable Method for Rapidly Detecting Potential Ground Vehicle Under Cover Using Visualization of Total Occlusion Footprint in Point Cloud Population

## INFORMATION DISCLOSURE STATEMENT

Sir:

Pursuant to 37 C.F.R. § 1.56 and in accordance with 37 C.F.R. §§1.97-1.98, information related to the above-identified application is hereby disclosed. Inclusion of information in this statement is not to be construed as an admission that this information is material as that term is defined in 37 C.F.R. § 1.56(b).

In accordance with §1.97(b), since this Information Disclosure Statement is being filed either within three months of the filing date of the above-identified application, within three months of the date of entry into the national stage of the above identified application as set forth in §1.491, or before the mailing date of a first Office Action on the merits of the above-identified application, no additional fee is required.

Respectfully submitted,

BLACK LOWE & GRAHAM<sup>PLLC</sup>

Dale C. Barr  
Registration No. 40,498  
Direct Dial: 206.381.3300



DAY 02 2005

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PTO/SB/08A (10-01)

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|  |   |    |   |                        |                    |
|--|---|----|---|------------------------|--------------------|
| Substitute for form 1449A/PTO  |   |    |   | Complete if Known      |                    |
| <b>INFORMATION DISCLOSURE<br/>STATEMENT BY APPLICANT</b><br><i>(use as many sheets as necessary)</i> |   |    |   | Application Number     | 10/666,149         |
|  |   |    |   | Filing Date            | September 19, 2003 |
|  |   |    |   | First Named Inventor   | Nelson, James M.   |
|  |   |    |   | Art Unit               | 2621               |
|  |   |    |   | Examiner Name          | Pending            |
| Sheet  | 1 | of | 3 | Attorney Docket Number | BING-1-1040        |

## U.S. PATENT DOCUMENTS

| Examiner Initials <sup>1</sup> | Cite No. <sup>1</sup> | Document Number                            | Publication Date<br>MM-DD-YYYY | Name of Patentee or<br>Applicant of Cited Document | Pages, Columns, Lines, Where<br>Relevant Passages or Relevant<br>Figures Appear |
|--------------------------------|-----------------------|--|--------------------------------|--|---|
|                                |                       | Number - Kind Code <sup>2</sup> (if known) |                                |  |   |
|                                |                       | US- 4,050,067                              | 09-20-1977                     | Elmore, Jr.  |   |
|                                |                       | US- 4,170,006                              | 10-02-1979                     | Falk   |   |
|                                |                       | US- 4,660,044                              | 04-21-1987                     | Lavelle  |   |
|                                |                       | US- 4,963,036                              | 10-16-1990                     | Drisko et al.                                      |   |
|                                |                       | US- 5,166,688                              | 11-24-1992                     | Moreira  |   |
|                                |                       | US- 5,196,854                              | 03-23-1993                     | Mathews  |   |
|                                |                       | US- 5,337,149                              | 08-09-1994                     | Kozah et al.                                       |   |
|                                |                       | US- 5,988,862                              | 11-23-1999                     | Kacyra et al.                                      |   |
|                                |                       | US- 6,044,336                              | 03-28-2000                     | Marmarelis et al.                                  |   |
|                                |                       | US- 6,166,744                              | 12-26-2000                     | Jasclicks et al.                                   |   |
|                                |                       | US- 6,232,913                              | 05-15-2001                     | Lehtinen   |   |
|                                |                       | US- 6,246,468                              | 06-12-2001                     | Dimsdale   |   |
|                                |                       | US- 6,249,600                              | 06-19-2001                     | Reed et al.  |   |
|                                |                       | US- 2001/0010546                           | 08-02-2001                     | Chen   |   |
|                                |                       | US- 6,292,215                              | 09-18-2001                     | Vincent  |   |
|                                |                       | US- 6,307,556                              | 10-23-2001                     | Ellenby et al.                                     |   |
|                                |                       | US- 6,330,523                              | 12-11-2001                     | Kacyra et al.                                      |   |
|                                |                       | US- 20020060784                            | 05-23-2002                     | Pack et al.  |   |
|                                |                       | US- 6,420,698                              | 07-16-2002                     | Dimsdale   |   |
|                                |                       | US- 6,473,079                              | 10-29-2002                     | Kacyra et al.                                      |   |

## FOREIGN PATENT DOCUMENTS

|                       |  |                    |  |
|-----------------------|--|--------------------|--|
| Examiner<br>Signature |  | Date<br>Considered |  |
|-----------------------|--|--------------------|--|

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See *Codes of USPTO Patent Documents* at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

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**Substitute for form 1449B/PTO**

## **INFORMATION DISCLOSURE STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Sheet 2 of 3

|  |   |                        |                    |
|--|---|------------------------|--------------------|
| Substitute for form 1449B/PTO  |   | Complete if Known      |                    |
| <b>INFORMATION DISCLOSURE<br/>STATEMENT BY APPLICANT</b><br><i>(use as many sheets as necessary)</i> |   | Application Number     | 10/666,149         |
|  |   | Filing Date            | September 19, 2003 |
|  |   | First Named Inventor   | Nelson, James M.   |
|  |   | Group Art Unit         | 2621               |
|  |   | Examiner Name          | Pending            |
| Sheet  | 2 | of                     | 3                  |
|  |   | Attorney Docket Number | BING-1-1040        |

#### OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS

|                       |  |                    |  |
|-----------------------|--|--------------------|--|
| Examiner<br>Signature |  | Date<br>Considered |  |
|-----------------------|--|--------------------|--|

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|--|---|----|---|------------------------|--------------------|
| Substitute for form 1449A/PTO                        |   |    |   | Complete if Known      |                    |
| <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> |   |    |   | Application Number     | 10/666,149         |
| (use as many sheets as necessary)                    |   |    |   | Filing Date            | September 19, 2003 |
|  |   |    |   | First Named Inventor   | Nelson, James M.   |
|  |   |    |   | Art Unit               | 2621               |
|  |   |    |   | Examiner Name          | Pending            |
| Sheet  | 3 | of | 3 | Attorney Docket Number | BING-1-1040        |

## U.S. PATENT DOCUMENTS

## FOREIGN PATENT DOCUMENTS

|                       |  |                    |  |
|-----------------------|--|--------------------|--|
| Examiner<br>Signature |  | Date<br>Considered |  |
|-----------------------|--|--------------------|--|

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<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

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